

TABLE 1.
Characteristics of the Population According to VDR Genotype

CHARACTERISTIC†	VDR GENOTYPE					P-VALUE
	11	12	13	22	33	
Number (%)	493 (24.9)	735 (37.2)	202 (10.2)	351 (17.7)	170 (8.6)	27 (1.4)
Age (years)	67.0 ± 6.8	67.1 ± 6.8	67.2 ± 7.1	67.0 ± 7.1	66.9 ± 6.8	67.0 ± 7.1
Body Mass Index (kg/m ²)	26.1 ± 3.7	26.0 ± 3.3	25.8 ± 3.6	26.1 ± 3.4	26.0 ± 3.2	25.5 ± 2.9
Dietary calcium-intake (mg/day)	1116 ± 350	1122 ± 364	1122 ± 356	1092 ± 369	1094 ± 342	1158 ± 254
Serum HDL-cholesterol (mmol/l)	1.34 ± 0.37	1.35 ± 0.36	1.36 ± 0.34	1.35 ± 0.37	1.32 ± 0.33	1.36 ± 0.38
Serum cholesterol (mmol/l)	6.68 ± 1.21	6.63 ± 1.26	6.64 ± 1.16	6.60 ± 1.19	6.59 ± 1.21	6.60 ± 0.96
Current Smokers (%)	130 (26.4)	172 (23.4)	45 (22.3)	78 (22.2)	40 (23.5)	6 (22.2)

† Values are means ± standard deviation; BMI is weight divided by the square height

§ P-value for ANOVA

¶ P-value for Chi-2 test

TABLE 2.

Myocardial Infarction According to VDR allele 1 Genotype

	Men		Women		All	
	MI (%)	Total	MI (%)	Total	MI (%)	Total
Total	151 (15.8)	954	62 (6.1)	1024	213 (10.8)	1978
by VDR allele 1 genotype						
Reference†	39 (14.7)	266	10 (3.5)	282	49 (8.9)	548
Heterozygotes	69 (15.4)	449	31 (6.4)	488	100 (10.7)	937
Homozygotes	43 (18.0)	239	21 (8.3)	254	64 (13.0)	493
χ^2	1.18		5.38		4.43	
P-VALUE	0.55		0.07		0.11	

Odds Ratios for Myocardial Infarct by VDR allele 1 genotype [95% CI]

Crude

Reference	1.00	1.00	1.00
Heterozygotes	1.07 [0.72 - 1.71]	1.86 [0.90 - 3.85]	1.23 [0.86 - 1.76]
Homozygotes	1.28 [0.80 - 2.05]	2.48 [1.15 - 5.39]	1.53 [1.03 - 2.27]
per copy VDR 1 allele	1.13 [0.89 - 1.44]	1.53 [1.07 - 2.20]	1.24 [1.02 - 1.51]

Age-, BMI-adjusted

Reference	1.00	1.00	1.00
Heterozygotes	1.11 [0.72 - 1.71]	1.77 [0.85 - 3.68]	1.22 [0.85 - 1.75]
Homozygotes	1.33 [0.82 - 2.14]	2.45 [1.12 - 5.34]	1.55 [1.04 - 2.30]
per copy VDR 1 allele	1.15 [0.91 - 1.47]	1.53 [1.06 - 2.22]	1.25 [1.02 - 1.52]

† "Reference" includes VDR genotypes 22, 23, 33; "Heterozygotes" includes 12, 13;
"Homozygotes" includes 11

TABLE 3.

Myocardial Infarction According to VDR allele 1 Genotype by Quartiles of Dietary Calcium Intake

	< 877 mg/day		> 877, < 1076		> 1076, < 1302		≥ 1302	
	MI (%)	Total	MI (%)	Total	MI (%)	Total	MI (%)	Total
Total	43 (10.0)	432	50 (11.6)	431	45 (10.4)	432	49 (11.4)	430
by VDR allele 1 genotype								
Reference†	13 (9.9)	131	14 (12.5)	112	12 (9.6)	125	3 (2.6)	114
Heterozygotes	21 (10.5)	200	24 (11.8)	204	21 (10.0)	210	26 (12.6)	207
Homozygotes	9 (8.9)	101	12 (10.4)	115	12 (12.4)	97	20 (18.3)	109
χ^2	0.19		0.25		0.53		14.17	
P-VALUE	0.91		0.88		0.77		0.0008	
Odds Ratios for Myocardial Infarct by VDR allele 1 genotype [95% CI]								
Crude								
Reference	1.00		1.00		1.00		1.00	
Heterozygotes	1.09 [0.52 - 2.27]		0.93 [0.46 - 1.89]		1.04 [0.49 - 2.20]		5.40 [1.59 - 18.3]	
Homozygotes	0.90 [0.37 - 2.20]		0.82 [0.36 - 1.87]		1.32 [0.56 - 3.09]		8.31 [2.39 - 29.0]	

† "Reference" includes VDR genotypes 22, 23, 33; "Heterozygotes" includes 12, 13; "Homozygotes" includes 11

TABLE 4.
Myocardial Arrhythmias According to VDR allele 1 Genotype by Quartiles of Dietary Calcium Intake

	< 877 mg/day		> 877, < 1076		> 1076, < 1302		≥ 1302	
	MA (%)	Total	MA (%)	Total	MA (%)	Total	MA (%)	Total
Total	37 (12.1)	307	27 (9.2)	292	17 (5.6)	302	31 (10.1)	306
by VDR allele 1 genotype								
Reference†	16 (17.0)	94	6 (8.8)	68	7 (7.7)	91	5 (5.7)	88
Heterozygotes	14 (10.1)	138	14 (10.1)	138	6 (4.4)	135	12 (8.5)	141
Homozygotes	7 (9.3)	75	7 (8.1)	86	4 (5.3)	76	14 (18.2)	77
χ^2	3.19		0.27		1.11		7.80	
P-VALUE	0.20		0.87		0.58		0.02	
Odds Ratios for Myocardial arrhythmias by VDR allele 1 genotype [95% CI]								
Crude	1.00		1.00		1.00		1.00	
Reference								
Heterozygotes	0.57 [0.26 - 1.23]		1.13 [0.41 - 3.12]		0.54 [0.18 - 1.69]		1.60 [0.54 - 4.74]	
Homozygotes	0.51 [0.20 - 1.32]		0.92 [0.29 - 2.92]		0.69 [0.19 - 2.46]		3.63 [1.22 - 10.9]	

† "Reference" includes VDR genotypes 22, 23, 33; "Heterozygotes" includes 12, 13; "Homozygotes" includes 11

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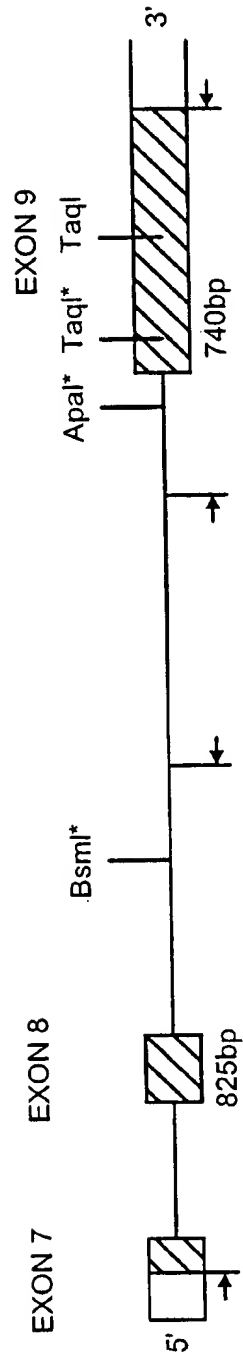


FIG. 1